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IN THE CLAIMS:

- 1. (Currently Amended) An improved method of making an immobilized enzyme comprising:
 - (a) treating an immobilization support with an aqueous solution comprising an aldehyde glutaraldehyde cross-linking agent, and polymeric aldehyde species, cyclic structures and acetals active centre species with an effective amount of a purifying agent to reduce the amount of said polymeric aldehyde species, cyclic structure and acetals, and produce a purified glutaraldehyde cross-linking agent solution;
 - (b) treating an immobilization support with said purified glutaraldehyde solution to produce a modified support;
 - (cb) isolating said modified support; and
 - (<u>d</u>e) treating an enzyme solution with said modified support to produce said immobilized enzyme; and
 - (d) treating said aqueous solution of the aldehyde cross-linking agent with an effective amount of a purifying agent to reduce the amount of said polymeric aldehyde species and other active centre species.
- 2. (Currently Amended) An improved method of making an immobilized enzyme comprising:
 - (a) treating an immobilization support with an aqueous enzyme solution to produce an adsorbed immobilized enzyme;
 - (b) isolating said adsorbed immobilized enzyme;
 - (c) treating an aqueous solution comprising glutaraldehyde, polymeric aldehyde species, cyclic structures and acetals with an effective amount of a purifying agent to reduce the amount of said polymeric aldehyde species, cyclic structures and acetals, and produce a purified glutaraldehyde crosslinking agent solution; and
 - (d) and treating said adsorbed immobilized enzyme with said purified glutaraldehyde cross-linking solution an effective amount of an aqueous

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solution comprising the aldehyde cross-linking agent and polymeric aldehyde species and active centre species to produce said immobilized enzyme product; and (c) treating said cross-linking agent with an effective amount of a purifying agent, to reduce the amount of said polymeric aldehyde species and other active centre species.

- 3. (Canceled)
- 4. (Canceled)
- 5. (Canceled)
- 6. (Canceled)
- 7. (Original) A method as defined in claim 1 wherein said immobilization support is selected from the group consisting of a natural or synthetic activated carbon material and a siliceous material selected from natural or synthetic zeolites, natural or synthetic sodium aluminosilicate, amorphous aluminosilicate and silica gel.
- 8. (Original) A method as defined in claim 2 wherein said immobilization support is selected from the group consisting of a natural or synthetic activated carbon material and a siliceous material selected from natural or synthetic zeolites, natural or synthetic sodium aluminosilicate, amorphous aluminosilicate and silica gel.
- 9. (Canceled)
- 10. (Canceled)

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- 11. (Original) A method as defined in claim 1 wherein said purifying agent is an activated carbon.
- 12. (Original) A method as defined in claim 2 wherein said purifying agent is an activated carbon.
- 13. (Canceled)
- 14. (Canceled)
- 15. (Original) A method as defined in claim 1 wherein said enzyme is an enzyme selected from the group consisting of amylase, glucoamylase, cellulase, xylanase, glucose isomerase, or any other group 3 hydrolase.
- 16. (Original) A method as defined in claim 2 wherein said enzyme is an enzyme selected from the group consisting of amylase, glucoamylase, cellulase, xylanase, glucose isomerase, or any other group 3 hydrolase.

Claims 17-20 (Canceled)